



U.S. Department
of Transportation

**Research and
Special Programs
Administration**

400 Seventh Street, S.W.
Washington, D.C. 20590

FEB 20 2001

Attention: Registered users of USA/0077/S

Enclosed is the latest revision of our Certificate of Competent Authority No. USA/0077/S for the 3M Model 4F6S source capsule. Since the 3M corporation no longer manufactures radioactive sources, I believe this certificate should be modified to restrict its application to "use only" and should be discontinued after a reasonable service life of the capsule has expired. If you believe such a decision is incorrect (i.e. the source is still being manufactured) or if you need any further information on this matter, please contact me at your earliest convenience. I can be reached by phone at 202-366-2993, by fax at 202-366-3753, or by email at rick.boyle@rspa.dot.gov.

Sincerely,

Richard W. Boyle, Chief
Radioactive Materials Branch
Office of Hazardous Materials
Technology



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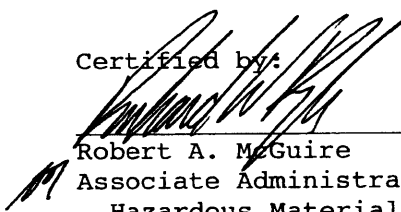
**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE NUMBER USA/0077/S, REVISION 6**

This certifies that the source described has been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency¹ and the United States of America² for the transport of radioactive materials.

1. Source Identification - 3M Model 4F6S.
2. Source Description - Source is doubly encapsulated welded Type 304 stainless steel, measuring 12.7 mm (0.5 in) in diameter by 19.05 mm (0.75 in) in length. Capsules shall be manufactured in accordance with 3M drawing B-1921-897 (attached).
3. Radioactive Contents - No more than 0.14 TBq (4 Ci) of Cesium-137 in 3M Brand Radiating Ceramic Microspheres.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 209 of the IAEA regulations¹ shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors and consignees in the United States exporting or importing shipments under this certificate shall satisfy the requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires February 28, 2006.

This certificate is issued in accordance with paragraph 703 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the petition and information dated November 3, 2000 submitted by J. L. Shepherd & Associates, San Fernando, CA, and in consideration of other information on file in this Office.

Certified by:


Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety

FEB 20 2001

(DATE)

Revision 6 - Issued to extend the expiration date.

1 "Safety Series No. 6, Regulations for the Safe Transport of Radioactive Materials, 1985 Edition, as amended 1990", published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

2 Title 49, Code of Federal Regulations, Parts 100 - 199, United States of America.

INNER CAPSULE
B-1921-2334

OUTER CAPSULE
B-1921-2336

INNER PLUG
B-1921-2331

OUTER PLUG
B-1921-2332

WELD ALL AROUND

LABEL DATA ENGRAVE PER
LABEL SPEC 85-27.45

3M BRAND
RADIATING MICROSPHERES
MODEL 4F6S CONTAINS
CS-137 ISOTOPE
MODEL 4F3D CONTAINS
CO-60 ISOTOPE

USED ON

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TO: SURFACE AND BORE SIZE TOLERANCES ARE .0005 INCHES

OPERATION

PLACES IN DRAWING

0 00 000

1 1 00 1 000

2 2 00 2 000

3 3 00 3 000

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3M

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NOV 17 70 JAN 1971
REDRAWN
ISSUE DATE AND CHANGE RECORD
REV. CH.

ASSY VOLUME SOURCE
MODEL NO. 4F6S-
4F3D

1921-897